$$-\frac{1}{X} + \frac{1}{X_2} + \frac{1}{X_3}$$

$$\mathbf{A}_{\square}^{(3,+\infty)} \qquad \qquad \mathbf{B}_{\square}^{(2,+\frac{14}{2})} \qquad \qquad \mathbf{C}_{\square}^{(2\sqrt{2},+\infty)} \qquad \qquad \mathbf{D}_{\square}^{(2\sqrt{2},+\infty)}$$

DDDD D 
$$A \Box = \frac{1}{2} \qquad B \Box = \frac{2}{3} \qquad C \Box = 1 \qquad D \Box = \frac{4}{3}$$

$$A\square_e$$
  $B\square_{2e}$   $C\square_{\overrightarrow{e}}^{1}$   $D\square^{-\frac{1}{\overrightarrow{e}}}$ 

 $f(\vec{x}) = \begin{cases} e^{\vec{x}} + 4\vec{a} & x > 0 \\ 2 - \log_{\vec{x}}(x+1) & x \le 0 \text{ for } x = x+2 \text{ for$ 

$$\mathbf{A} \square \left[ \frac{1}{4} \square \right] \qquad \qquad \mathbf{B} \square \left[ \frac{1}{4} \square \right] \qquad \qquad \mathbf{C} \square \left[ \frac{1}{e} \square \right] \qquad \qquad \mathbf{D} \square (0 \square 1)$$

$$\mathbf{A}_{\square}({}^{\text{-}}\, \mathbf{1}_{}, \frac{1}{4})$$

$$C \square^{(\frac{1}{4},1)}$$

$$\mathbf{D} \left[ \left( \frac{1}{4}, +\infty \right) \right]$$

 $\Pi a \Pi \Pi \Pi \Pi \Pi \Pi \Pi \Pi \Pi$ 

$$\mathbf{A} \Box \left[ -\infty, e^{\frac{1}{2}} \right] \qquad \qquad \mathbf{B} \Box \left[ \frac{2}{e'} + \infty \right] \qquad \qquad \mathbf{C} \Box \left( -\infty, e^{2} \right] \qquad \qquad \mathbf{D} \Box \left( e^{\frac{1}{e'}}, +\infty \right)$$

$$\mathbf{B} \Box \begin{bmatrix} \frac{2}{e'}, +\infty \end{bmatrix}$$

$$\mathbf{D} = \begin{pmatrix} e^{\frac{1}{2}}, +\infty \end{pmatrix}$$

 $\left| \frac{1}{\mathrm{e}}, \mathrm{e} \right|$  (an  $\epsilon$ annon)

$$\mathbf{A} = \begin{bmatrix} -1 - \frac{1}{2e^2}, -\frac{1}{2} \end{bmatrix}$$

$$\mathbf{A}_{\square} \left[ -1 - \frac{1}{2e^2}, -\frac{1}{2} \right] \qquad \mathbf{B}_{\square} \left[ -1 - \frac{1}{2e^2}, -\frac{1}{2} \right] \qquad \mathbf{C}_{\square} \left[ 1 - \frac{1}{2}e^2, -\frac{1}{2} \right] \qquad \mathbf{D}_{\square} \left[ 1 - \frac{1}{2}e^2, -\frac{1}{2} \right]$$

$$\mathbf{C}$$
  $\left[1-\frac{1}{2}\mathbf{e}^2,-\frac{1}{2}\right]$ 

$$\mathbf{D} \left[ 1 - \frac{1}{2} \mathbf{e}^2, -\frac{1}{2} \right]$$



$$\mathbf{A} \Box \frac{17}{40} a$$

B∏ 
$$\frac{5}{8}$$
  $a$ 

$$C \prod \frac{5\sqrt{5}}{24} e^{2}$$

$$\frac{5}{8}$$
  $\frac{5}{8}$   $\frac{5\sqrt{5}}{24}$   $a$   $\frac{2\sqrt{13}}{13}$   $a$ 

 $a_{n+1} = \left(1 + \frac{1}{n}\right) a_n + \frac{2}{n} (n \in \mathbf{N}) \int_{\mathbf{n}} f(a_{22}) = \mathbf{n}$ 

A∏0

B□- 1

C<sub>□</sub>21

A□<sup>(-∞,0)</sup>

 $\mathbf{B}_{\square}^{(0,+\infty)} \qquad \qquad \mathbf{C}_{\square}^{(-\infty,1)} \qquad \qquad \mathbf{D}_{\square}^{(1,+\infty)}$ 

and  $AF = \frac{1}{2}FB_0$  and C

 $A \square \frac{2\sqrt{3}}{3}$ 

 $B\Box_{\sqrt{3}} \qquad \qquad C\Box\frac{4\sqrt{3}}{3} \qquad \qquad D\Box\frac{5\sqrt{3}}{3}$ 

 $A \square f(x) \square \square \square \square X = \frac{\pi}{2} \square \square$ 

 $\mathbf{B} \square \xrightarrow{f(\ \mathbf{X})} \square \square \square \square^{\ \Pi}$ 

 $\operatorname{Cool} \left| f(X_i) \right| = \left| f(X_i) \right|_{\square \square} X_i = X_2 + 2k \Pi_{\square} k \in \mathbb{Z}_{\square}$ 

 $\mathbf{D} \mathbf{D} f(\mathbf{x}) \mathbf{D} \mathbf{D} \left[ \frac{\pi}{4}, \frac{3\pi}{4} \right] \mathbf{D} \mathbf{D} \mathbf{D} \mathbf{D}$ 

 $\mathfrak{D}^{2\tau} \square \stackrel{f(X)}{\square} \square \square \square$ 

② f(x)

(3)  $f(x) = \frac{\pi}{2} = 0$ 

(4)  $f(x) = \frac{3\sqrt{3}}{4}$ 

**A**□1□

 $B \square 2 \square$ 

 $C \square 3 \square$ 

A∏0

B<sub>□</sub>1

 $C \square 2$ 

 $f\left(x + \frac{6}{e}\right) = f(x) \quad x \in \left[0, \frac{3}{e}\right], \ f(x) = -ex + 2$ 

 $A \square 2$ 

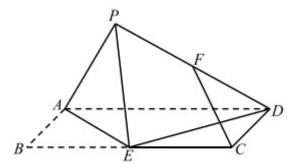
В∏З

$$\mathbf{A} = \begin{bmatrix} \frac{8}{3}, +\infty \end{bmatrix}$$

$$\mathbf{B}_{\square}^{(-\infty,0)}\cup\left[\frac{8}{3},+\infty\right]$$

$$\mathbf{D} [(-\infty,0] \cup \left[\frac{8}{3},+\infty\right]$$

 $P \notin \square \square AECD$ 



 $A \sqcap CF / \sqcap AEP$ 

 $C \square AE \perp DF$ 

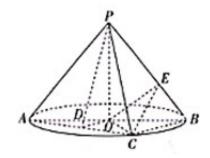
 $\mathsf{D}_{\mathsf{D}\mathsf{D}\mathsf{D}\mathsf{D}} \overset{APE}{=} \mathsf{D} \overset{AECD}{=} \mathsf{D} \overset{AD}{=} \mathsf{D} \mathsf{D} \overset{PDE}{=} \mathsf{D} \mathsf{D} \mathsf{D} \overset{30}{=} \mathsf{D}$ 

$$\textcircled{1} \ \square \ \ \overbrace{f(\ \textit{x})} \ \square \square \square \square \square \ \ (\ \textit{0,1}) \ \square \square \square \square \square$$

(3) 
$$y = f(x) = 0$$

$$\textcircled{4} \hspace{0.1cm} \bigcirc \hspace{0.1cm} \overset{\mathcal{Y}}{\longrightarrow} \hspace{0.1cm}$$

 $A \square 4$   $B \square 3$   $C \square 2$   $D \square 1$ 



 $A \square \square AC \bot \square PDO$ 

 $B_0 \subset E_0 PD_{0000000}$   $C_{000} \subset E_{0000000} PDO$ 

$$\mathbf{D} = \sqrt{2} \quad CE + OE \quad 2$$

	А	В	С
00000	0.8	0.6	0.4
000000/0	1000	2000	3000

 $A \square A \rightarrow B \rightarrow C$   $B \square C \rightarrow B \rightarrow A$   $C \square C \rightarrow A \rightarrow B$   $D \square B \rightarrow C \rightarrow A$ 

 $\mathbf{A} \square \square \stackrel{f(x) = 3^x}{\square} \stackrel{P(1)}{\square} \square$ 

 $\mathbf{B}_{\square\square\square} f(\mathbf{x}) = \mathbf{x}^3 \square f(2) \square\square$ 

 $C = \int_{\mathbb{R}^2} f(x) = \log_{\mathbb{R}^2} (x + t) = f(2) = 0$ 

Dodo  $f(x) = \tan x + b$   $P(\frac{\pi}{4}) = b = \pm \sqrt{2}$ 

aaaaaaaaaaaaaaa $^{ig|}a_n^{ig|}$ aa"aaaaaaa"aa  $^{ig|}a_n^{ig|}$ aa  $^{ig|}a$ aaaaaaaaaaaaa aa

 $\mathbf{A}_{\square}^{a_{\!\scriptscriptstyle 8}} = 21$ 

 $\mathbf{B} \square \stackrel{\mathcal{S}_{i}}{=} 32$ 

 $C \square_{a_1 + a_3 + a_5 + \dots + a_{2n+1} = a_{2n}}$ 

 $\mathbf{D} \Box \frac{\vec{d}_{1}^{2} + \vec{d}_{2}^{2} + \dots + \vec{d}_{2021}^{2}}{\vec{d}_{2021}} = \vec{d}_{2022}$ 

A00000000  $\frac{X^2}{9} - \frac{y^2}{27} = 1$ 

 $\frac{|PF_1|}{B \cap |PF_2|} = 2$ 

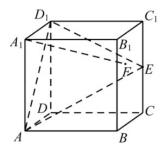
 $C \prod |PF_1 + PF_2| = 3\sqrt{6}$ 

 $A \square f(x) \square_R \square \square \square \square$ 

 $B \Box f | e^{\frac{1}{2}} | < ff - \log_5 0.2) < (\ln \pi)$ 

$$\mathsf{Cnnn}^{f(X)} = 1_{\mathsf{nnnn}}$$

D00000 
$$k_{00000} f(x) = kx_{0000}$$



$$\mathbf{A} \square \square^F \square \square \square \square \square \square \square$$

$$B_{\square}^{AF}_{\square}^{BE}_{\square \square \square \square \square}$$

$$\operatorname{Cl}^{AF}_{\square}{}^{DE}_{\square}$$

$$\mathsf{D} = \mathsf{P} - \mathsf{A} \mathsf{B} \mathsf{D}_1 = \mathsf{D} = \mathsf{D} = \mathsf{D}$$

 $\mathsf{A}\mathsf{\Pi}^{f(X)}\mathsf{\Pi}\mathsf{\Pi}\mathsf{\Pi}\mathsf{\Pi}\mathsf{\Pi}\mathsf{2}$ 

**B**∏ω =4

$$\mathbf{D} = f(\mathbf{x}) = \mathbf{D} = \begin{bmatrix} -\frac{\pi}{6} + \frac{k\pi}{2}, \frac{\pi}{12} + \frac{k\pi}{2} \end{bmatrix} = k \in \mathbf{Z}$$

 $A_{0000} f(x) = 2m_{00000000} m \in (0,1)$ 

 $\mathbf{B} \square y = f(\mathbf{x}) \square y = k\mathbf{x} \square k = \frac{e}{2}$ 

 $C_{0000} = f(x) > \frac{x+1}{e^x} = 0$ 

$$D \square \frac{3}{2} \ln 2 + 1 < \frac{4\sqrt{2}}{e}$$

$$\mathbf{A}_{\square}^{2}_{\square}^{f(x)}_{\square\square\square}$$

$$\mathbf{B}_{\square}{}^{X=-1}_{\square\square}{}^{f(X)}_{\square\square\square\square\square\square}$$

$$C \square f(2021) = 2$$

$$D = \frac{1}{2} |x| = \frac{1}{2} |x$$

$$\mathbf{A} = \mathbf{a} + b = 2 \operatorname{lg} \mathbf{a} + \operatorname{lg} \mathbf{b} \le 0$$

B\_ 
$$ab - a - 2b = 0$$
  $a + 2b \ge 9$ 

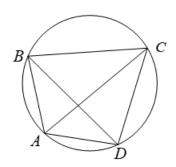
$$C_{a+b=2} = \frac{a}{b} + \frac{1}{ab} - \frac{1}{2} \ge \frac{\sqrt{5}}{2}$$

$$D \Box \Box \frac{1}{a+1} + \frac{1}{b+2} = \frac{1}{3} \Box \Box ab + a + b \ge 14 + 6\sqrt{6}$$

$$f(0) = 0 \text{ if } 1 - x \text{ if } + f \text{ if } = 1 \text{ if } \left[ \frac{x}{3} \right] = \frac{1}{2} \quad (x) \text{ if } \left[ \frac{1}{3} \right] = \underline{\qquad} f \left( \frac{\ln 3}{3} \right) = \underline{\qquad}.$$

 $AB-BC-CD-DA_{\square\square\square}A_{\square}B_{\square}C_{\square}D_{\square\square\square\square\square}AC_{\square}BD_{\square\square\square\square\square\square\square} \\ |AB|+|AD|=4 \\ \square \angle DAB=120 \\ \square \square \\ |BD|_{\square\square\square\square\square}$ 

$$\triangle ADC = \angle ABC_{00}^{AC}_{00000}^{AC}_{00000}$$

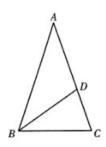


 $34 = \begin{cases} (3-a)x^2 - x + 3 - 2a, x < 0 \\ \log_a(x+1) - 1, x \ge 0 \end{cases}$ 

 $f(x) \ge f(0)$ 

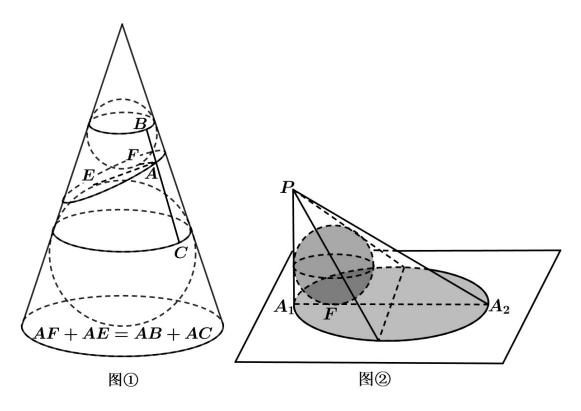
3502021 $\cdot$ 00000000000000 $36^\circ$ 00000000"00000"00000000000000 $\Delta ABC$ 0000000

\_\_\_\_.



Germin $al\ dandelin$  1794-1847 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1990 | 1

E



$$x \in (0,1)_{00}$$
  $f(x) = x^{2}_{0000}$   $F(x) = (x-1)$   $f(x) - 1_{0}[-4,5]_{0000}$ 

$$f(-ax + \ln x + 1) + f(ax - \ln - 1) \ge 2f(1)$$

 $\textcircled{1}^{\,\varpi} \, \fbox{]} \, \fbox{]} \, 4$ 

$$(2) f(x) = \left[0, \frac{3\tau}{16}\right] = 0$$

**4** 
$$f(x) = 0$$

*PAB*0000000\_\_\_\_0

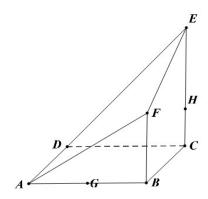
 $|\alpha - \beta| < n_{\texttt{DODOD}} f(x) = g(x) = (x) = 2^{x-2} - 1_{\texttt{DD}} g(x) = x^2 - ae^x (e_{\texttt{DODODOD}}) = (1 + ae^x) = (a - be^x) = (a - be$ 

000 a 000000\_\_\_\_\_.

|FN| =

$$t = (\lambda - 1)^2 + \mu^2$$

\_\_\_\_



① [] *CH*=1 [][*HG*//[][ *ADF*[]

 $\bigcirc \bigcirc CD \bigcirc AE \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc \bigcirc$ 

AF



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